DS1100

*DATALOGIC

Ultra Compact Cost-effective

Laser Scanner













Unattended Scanning Systems

General Description

applications. Datalogic's **DS1100** offers the best cost-effective industrial solution for OEM

nized excellent scanning performance. provides very compact dimensions, light weight and, obviously, Datalogic's recog-Specifically designed for easy integration into OEM equipment, the DS1100

quickly configured through WINHOST™, the intuitive set-up software. silence during use. Set-up procedures are very easy to follow so the scanner can be commands, in accordance with application needs, increasing product life and very flexible installation. The motor can be switched off and on via software direct and 90° output window versions have the same compact dimensions, allowing consideration during the DS1100 product development. Thanks to these studies, Many applications and customers' needs have been analyzed and taken into great

specific models. grants optimized performance on high resolution codes, thanks to a full range of The DS1100 covers a wide reading area, scans very close to the output window and

accuracy even on damaged or poorly printed bar codes. algorithms and impressive optical performance assure the highest read rate and The perfect combination of a powerful RISC decoder with reliable decoding

available using Master-Slave or Multiplexer connections. using the two high speed serial interfaces. Multi-point scanning configurations Integration and connection with existing control systems, PCs or PLCs, is very easy are

as an embedded module for specific applications. The **DS1100** is equipped with IP65 rugged industrial housing and is also available

Features

- Scanning speed of 500 scans/s
- Motor on/off software commands
- Cost-effective
- direct/90° reading window models Very compact dimensions for both
- Wide reading width at a short reading distance
- Lightweight <100 g (<3.53 oz)
- V Dual high speed serial interface (RS232/RS485)

Applications

- Chemical and blood analyzers
- Pharmaceutical code verifiers
- Automatic teller machines (ATMs)
- Printing machines
- Film processing machines Video rental machines
- Assembly lines
- Work-in-process & Quality control

S1100

effective Laser Scanner **Ultra Compact Cost-**

Specifications

Dimensions

ELECTRICAL CHARACTERISTICS

POWER CONSUMPTION POWER SUPPLY 1.5 W 5 VDC \pm 5% (4 to 30 VDC with converter)

MECHANICAL CHARACTERISTICS

PERFORMANCE CASE MATERIAL WEIGHT (without cable)

SCANNING SPEED LIGHT SOURCE

MAX. RESOLUTION

2xxx models 1xxx models

MAX. READING DISTANCE

2xxx models 1xxx models

MAX. DEPTH OF FIELD

1xxx models

APERTURE ANGLE 2xxx models

RASTER APERTURE

READABLE CODES

MULTILABEL READING

BAUD RATE

COMM. INTERFACES

INPUT SIGNALS

PROGRAMMING METHOD **OUTPUT SIGNALS**

OPERATING MODES

MOTOR CONTROL

LASER CLASSIFICATION LED INDICATORS

LASER CONTROL

ENVIRONMENT

STORAGE TEMPERATURE OPERATING TEMPERATURE

HUMIDITY

PROTECTION CLASS SHOCK RESISTANCE VIBRATION RESISTANCE

<100 g (<3.53 oz)

Magnesium (body) + Polycarbonate (cover)

Visible laser diode (650 nm)

500 scans/s

0.20 mm (8 mils) 0.12 mm (5 mils)

220 mm (8.7 in) on 0.50 mm (20 mils) code res. 110 mm (4.3 in) on 0.30 mm (12 mils) code res.

190 mm (7.5 in) on 0.50 mm (20 mils) code res 100 mm (3.7 in) on 0.30 mm (12 mils) code res

70 degrees

15 mm (0.6 in) at 220 mm (8.7 in)

Code 2/5, Code 39, Code 93, Code 128, EAN/UPC, EAN 128, Codabar, Plessey, Pharmacode

Up to 6 different codes in the same reading phase

RS232+RS485 half duplex

Up to 115,200 bauds

digital input One programmable digital input and One External Trigger

Two programmable digital outputs

Via serial port (WINHOST™)

'On line', 'Serial On-line', 'Automatic', 'Test'

Motor on/off software commands

'Power On', 'Ext Trigger', 'Laser On', 'Good Read', 'Tx Data'

IEC 825-1 Class 2; CDRH Class II

Security system to turn laser off in case of motor slow down

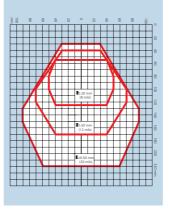
0 to 45 °C (32 to 113 °F) -20 to 70 °C (-4 to 158 °F)

90% non condensing

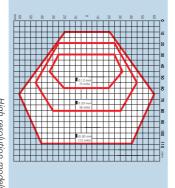
IEC 68-2-6 test FC 1.5 mm; 10 to 55 Hz; 2 hours on each axis IEC 68-2-27 test EA 30 G; 11 ms; 3 shocks on each axis

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Reading Diagrams



Standard resolution models



High resolution models







